NC/PMC/PD/MW-13/2019-20/DG2-C1

Date: 01-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**273 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.74 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.43 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/PD/MW-13/2019-20/DG2-PCC1 Date: 01-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100	85-100	95 – 100
20mm	55.90	0 -20	30- 70
10mm	26.25	0 -5	10- 35
4.75mm	3.70	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	97.20	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.65	60-95	75-100	85-100	
01.18	58.90	30-70	55-90	75-100	
600. mic	56.15	15-34	35-59	60-79	
300.mic	16.40	5-20	8-30	12-40	
150.mic	7.85	0-10	0-10	0-10	

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NC/PMC/PD/MW-13/2019-20/DG2-FA1 **Date: 09-04-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.75**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.10**	60-95	75-100	85-100	
01.18	**75.40**	30-70	55-90	75-100	
600 mic	**56.05**	15.34	35-59	60-79	
300 mic	**24.85**	5-20	8-30	12-40	
150 mic	**7.20**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.65 %**	-----
2	Silt Content	----	**0.64 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	------

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TABLE – 2

SL No	Details	For 12 mm		For 16 mm	
		Test Results	Min Req as per IS 1786-2008	Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	**12.0mm**	12.0mm	**16.0 mm**	16.0 mm
02	Observed Wt/m Length **Kg/m**	**0.892**	0.834	**1.596**	1.483
03	Proof stress/Yield stress, fy , **N/mm²**	**546.0**	500.0	**561.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.75**	12.00	**20.40**	12.00
06	Ultimate Tensile Strength **N/mm²**	**628.0**	545.0	**645.0**	545.0

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NC/PMC/PD/MW-13/2019-20/DG2-CB6 Date: 04-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-04-19	04-05-19	07	22500	435	19.33	19.70
	002	"	"	"	"	445	19.78	
	003	"	"	"	"	450	20.00	

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NC/PMC/PD/MW-13/2019-20/DG2-CB2A Date: 14-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development Works at Dobighat in Ward No-13 Mallasandra Ward.}
Ref. Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-04-19	14-05-19	28	22500	605	26.89	**27.26**
	002	"	"	"	"	620	27.56	
	003	"	"	"	"	615	27.33	

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NC/PMC/PD/MW-13/2019-20/DG2-CB11A Date: 01-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development Works at Dobhighat in Ward No-13 Mallasandra Ward.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M25

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-05-19	01-06-19	28	22500	610	27.11	**27.33**
	002	''	"	''	"	630	28.00	
	003	''	"	''	"	605	26.89	

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